

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant : Elias J. Nemer  
Serial No. : to be assigned  
Filed : concurrently herewith  
For : **METHOD OF AND APPARATUS FOR REDUCING ACOUSTIC  
NOISE IN WIRELESS AND LANDLINE BASED TELEPHONY**

Attention: Box IDS  
Assistant Commissioner for Patents  
Washington, D.C. 20231



**INFORMATION DISCLOSURE STATEMENT**

Sir:

In compliance with the duty to disclose, Applicant submits herewith copies of the U.S. patents listed in the attached Form PTO-1449, which may be material to the examination of this application.

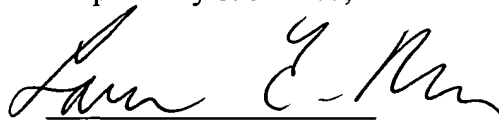
All references submitted herewith are in the English language.

Since filing of the present Information Disclosure Statement is being effected before issuance of a first Office Action on the merits, no fee is required. Please charge any deficiency in fees to deposit account No. 03-2317.

Consideration of this Information Disclosure Statement is respectfully requested, since the information provided herein may be material to the patentability of the subject application as defined in 37 C.F.R. §1.56.

Dated: January 28, 2000

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Lawrence E. Russ", written over a horizontal line.

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Form PTO-1449 U.S. Dept. Of Commerce Patent &amp; Trademark

Serial No.: to be assigned

Applicant(s): Elias J. Nemer

**Information Disclosure Citation**

(Use several sheets if necessary)

Examiner: to be assigned

Group Art Unit:

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**U.S. PATENT DOCUMENTS**

*Exm. Intl	DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	Filing Date if Appropriate
A	5,485,522	Jan. 16, 1996	Solve et al.			
B	4,811,404	Mar. 7, 1989	Vilmur et al.			
C	5,485,524	Jan. 16, 1996	Kuusama et al.			
D	5,432,859	Jul. 11, 1995	Yang et al.			
E	5,406,635	Apr. 11, 1995	Jarvinen			
F						
G						
H						
I						
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K						
L						
M						

1525 U.S. PTO  
09/49/709  
01/28/00

**FOREIGN PATENT DOCUMENTS**

*Exm. Intl	DOCUMENT NO.	DATE	COUNTRY	CLASS	Sub-Class	Translation Yes - No
N	EP 0,588,526 A1	March 23, 1994	European Patent			[ ] [ ]
O						[ ] [ ]
P						[ ] [ ]
Q						[ ] [ ]
R						[ ] [ ]

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)**

S	O. Cappe, "Elimination of the musical noise phenomena with the Ephraim and Malah noise suppressor", IEEE trans. On speech and audio processing , Vol. 2, No. 2, April 1994, pp. 345-349.
T	Y. Ephraim and D. Malah. "Speech enhancement using a minimum mean-square error short-time spectral amplitude estimator" IEEE trans. ASSP, Vol. ASSP-32, pp. 1109-1121, Dec. 1984.
U	B. Moore and B. Glasberg. "Suggested formulae for calculating auditory-filter bandwidths and excitation patterns", Journal Acoustical Society of America., Vol. 74, No. 3, Sept. 1983, pp. 750-753.
V	J. Sohn, N. Kim, W. Sung. "A statistical model-based voice activity detection", IEEE Signal Processing Letters, Vol. 6, No. 1, Jan. 1999, pp. 1-3.

Examiner:

Date Considered:

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

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R						[ ] [ ]

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)**

S	Yang, "Frequency domain noise suppression approaches in mobile telephone systems", Proc. ICASSP 1993, pp. 363-366.
T	
U	
V	

Examiner:

Date Considered:

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.